

## BIOGRAPHICAL SKETCH

NAME Ursos Besario, Lyann May	POSITION TITLE  Postdoctoral Appointee		
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Georgetown University, Washington D.C.	Ph.D.	2003	Biochemistry
University of the Philippines-Diliman Quezon City, Philippines	B.S.	1996	Chemistry

### Positions and Honors:

2003 – Present	Postdoctoral Appointee Biosciences Division, Argonne National Laboratory 9700 S Cass Ave, Argonne, IL 60439
2002 – 2003	Dean's Dissertation Fellow Department of Chemistry, Georgetown University 37 <sup>th</sup> and O Sts NW, Washington DC, 20057 USA
1999 – 2002	Graduate Research Assistant Department of Chemistry, Georgetown University 37 <sup>th</sup> and O Sts NW, Washington DC, 20057 USA
1999 – 1999	Espensheid Fellow Department of Chemistry, Georgetown University 37 <sup>th</sup> and O Sts NW, Washington DC, 20057 USA
1998 – 1999	Teaching Assistant Department of Chemistry, Georgetown University
1996 – 1998	Instructor I Institute of Chemistry, University of the Philippines Diliman, 1101 Quezon City, Philippines
1995 – 1995	Chemist Apprentice Del Monte Philippines Sasa 8000 Davao City, Philippines
2005	Best Poster Award. Beyond Genome 2005. The Future of Medicine. Cambridge Institute of Health's 7 <sup>th</sup> Annual Systems Biology. Validation of Multi-Variate Biology. San Francisco, CA.
2004	Harold N. Glassman Dissertation Award in the Natural Sciences Graduate School of Arts and Sciences, Georgetown University, Washington DC
2002, 2003	Dean's Dissertation Fellowship Graduate School of Arts of Sciences, Georgetown University, Wash. DC
1999	Espensheid Fellowship Department of Chemistry, Georgetown University, Washington DC
1993, 1996	College Scholar College of Science, University of the Philippines, Diliman
1992	University Scholar University of the Philippines, Diliman

### Selected peer-reviewed publications

Dzekunov SM, **Ursos LM**, Roepe PD. Digestive vacuolar pH of intact intraerythrocytic *P. falciparum* either sensitive or resistant to chloroquine. *Molecular and Biochemical Parasitology*. 2000 Sep; **110**(1): 107-24.

**Ursos LM**, Dzekunov SM, Roepe PD. The effects of chloroquine and verapamil on digestive vacuolar pH of *P. falciparum* either sensitive or resistant to chloroquine. *Molecular and Biochemical Parasitology*. 2000 Sep; **110**(1): 125-34.

Fidock DA, Nomura T, Talley AK, Cooper RA, Dzekunov SM, Ferdig MT, **Ursos LM**, Sidhu AB, Naude B, Deitsch KW, Su XZ, Wootton JC, Roepe PD, Wellems TE. Mutations in the *P. falciparum* digestive vacuole transmembrane protein PfCRT and evidence for their role in chloroquine resistance. *Molecular Cell*. 2000 Oct; **6**(4): 861-71.

**Ursos LM**, DuBay KF, Roepe PD. Antimalarial drugs influence the pH dependent solubility of heme via apparent nucleation phenomena. *Molecular and Biochemical Parasitology*. 2001 Jan 15; **112**(1): 11-7.

Mehlotra RK, Fujioka H, Roepe PD, Janneh O, **Ursos LM**, Jacobs-Lorena V, McNamara DT, Bockarie MJ, Kazura JW, Kyle DE, Fidock DA, Zimmerman PA. Evolution of a unique *Plasmodium falciparum* chloroquine-resistance phenotype in association with pfCRT polymorphism in Papua New Guinea and South America. *Proceedings of the National Academy of Sciences USA*. 2001 Oct 23; **98**(22): 12689-94.

Cooper RA, Ferdig MT, Su XZ, **Ursos LM**, Mu J, Nomura T, Fujioka H, Fidock DA, Roepe PD, Wellems TE. Alternative mutations at position 76 of the vacuolar transmembrane protein PfCRT are associated with chloroquine resistance and unique stereospecific quinine and quinidine responses in *Plasmodium falciparum*. *Molecular Pharmacology*. 2002 Jan; **61**(1): 35-42.

Leed A, DuBay K, **Ursos LM**, Sears D, De Dios AC, Roepe PD. Solution structures of antimalarial drug-heme complexes. *Biochemistry*. 2002 Aug 13; **41**(32): 10245-55.

De Dios A, Tycko R, **Ursos LMB**, Roepe PD. NMR Studies of Chloroquine-Ferriprotoporphyrin IX Complex. *Journal of Physical Chemistry A*. 2003 Jul 31. **107**(30): 5821-5.

Waller KA, Muhle RA, **Ursos LMB**, Horrocks P, Verdier-Pinard D, Sidhu AB, Fujioka H, Roepe PD, Fidock DA. Chloroquine resistance modulated in vitro by expression levels of the *Plasmodium falciparum* chloroquine resistance transporter (PfCRT). *Journal of Bioorganic Chemistry*. 2003 Aug 29; **278**(35): 33593-601.

Bennett TN, Kosar AD, **Ursos LM**, Dzekunov S, Singh Sidhu AB, Fidock DA, Roepe PD. Drug resistance-associated pfCRT mutations confer decreased *Plasmodium falciparum* digestive vacuolar pH. *Molecular and Biochemical Parasitology*. 2004 Jan; **133**(1): 99-114.

Glesne D, Mandava S, Zhang W, **Ursos LMB**, Makowski L, Rodi D. Subtractive Transcriptomics : Establishing Polarity Drives Human Endothelial Morphogenesis. *Cancer Research*. 2006 April; **66**(8): 4030-40.

Dzekunov SM, **Ursos LM**, Roepe PD. Response to Bray *et al.* 'Distribution of acridine orange fluorescence in *P. falciparum*—infected erythrocytes and its implications for the evaluation of digestive vacuole pH'. *Molecular and Biochemical Parasitology*. 2002 Feb; **119**(2): 307-309.

**Ursos LM**, Roepe PD. Chloroquine resistance in the malarial parasite, *Plasmodium falciparum*. *Medicinal Research Reviews*. 2002 Sep; **22**(5): 465-91.